

TITLE: Wind-proof Umbrella Having Y-shape Wires

BACKGROUND OF THE INVENTION

A conventional wind-proof umbrella, such as shown in Figure 1 and 5 2, includes a connecting wire (1) being connected between an inner end of a branch rib (2) and an outer end of a main rib (3). When the umbrella is opened, the connecting wire (1) can pull the main rib (3) that prevents the main rib (3) from damage while against wind happens suddenly. But this known structure doesn't have enough strength by the single 10 connecting wire (1). Moreover, when the umbrella is closed, the connecting wire (1) is usually exposed outside the umbrella since the branch rib (2) is moved downward together with a runner (4) that leads trouble for use.

Accordingly, the present invention is to provide a wind-proof 15 umbrella having a Y-shape wire for connecting the main rib in stable to provide a better effect for resisting against wind.

BRIEF DESCRIPTION OF THE DRAWINGS

The following drawings indicate the character and improvement of the present invention.

20 Figure 1 is a plan view of a conventional umbrella in opened state.

Figure 2 is a plan view of a conventional umbrella in closed state.

Figure 3 is a plan view of a wind-proof umbrella having a Y-shape wire in opened state according to the present invention.

Figure 4 is a plan view of Figure 3 in closed state.

25 Figure 5 is a top plan view of Figure 3.

Figure 6 is a plan view of another embodiment applied to an automatically umbrella in opened state according to the present invention.

Figure 7 is a plan view of Figure 6 in closed state.

#### DETAILED DESCRIPTION OF THE INVENTION

Referring to Figure 3 to 5, the present invention relates to a wind-proof umbrella having a Y-shape wire, which includes a normal shaft (6), a runner (4), a main rib (3), and a branch rib (2). The characteristic of the invention is to provide a ring (5) on the shaft (6) at an upper position. A Y-shape wire (7) is provided to connect its inner end to the ring (5) and its two outer ends to two nearby main ribs (3). Hence, each main rib (3) is connected with two Y-shape wires (7). It can be found that, when the umbrella is opened, each main rib (3) can be pulled by two Y-shape wires (7) that obtains a better strength for resisting against wind. When the umbrella is closed, the Y-shape wire (7) can be hidden in the cover of the umbrella since the inner end of the wire is still connected to the ring (5) that overcomes the drawback of prior art.

Referring to figure 6 and 7, it discloses another embodiment of the present invention that is applied to an automatic umbrella, wherein a spring (51) is provided under the ring (5). When the umbrella is closed, the ring (5) is moved upward and the Y-shape wire will never be exposed. The Y-shape wire (7) can pull the main rib (3) effectively for resisting against wind also.

Accordingly, the present invention obtains utility for use and should be allowed for patent.